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Total Number of Pages in This Submission

Application Number	10/718,955
Filing Date	November 21, 2003
First Named Inventor	Clayton H. Johnson et al.
Art Unit	1645
Examiner Name	Unknown
Total Number of Pages in This Submission	55474-294389

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): See Remarks
Remarks Express Mail Certificate EV 463 363 546 US; PTO/SB/08A Listing 147 References; 130 Non-U.S. Patent References (18-147); and Return Postcard.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Kilpatrick Stockton LLP		
Signature			
Printed Name	Cynthia B. Rothschild		
Date	8-2-2005	Reg. No.	47,040

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EXPRESS MAIL CERTIFICATE

"Express Mail" Label No. : EV 463 363 546 US

Serial No. : 10/718,955

Applicant(s) : Clayton H. Johnson et al.

Filing Date : November 21, 2003

Title : ***HISTOPLASMA CAPSULATUM CHITIN SYNTHASE SEQUENCES AND THEIR USE FOR DETECTION OF HISTOPLASMA CAPSULATUM AND HISTOPLASMOSIS***

Examiner : Unknown

Group Art Unit : 1645

Type of Document(s) : Express Mail Certificate;
Transmittal Form (PTO/SB/21);
Information Disclosure Statement (*in duplicate*);
PTO/SB/08A listing 147 References;
130 Non-U.S. Patent References (18-147); and
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I hereby certify that the documents identified above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and are addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Amber C. Johnson (signature)
Amber C. Johnson

Date Mailed: August 2, 2005



EV 463 363 546 US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Clayton H. Johnson et al.
Serial No : 10/718,955
Filed : November 21, 2003
For : ***HISTOPLASMA CAPSULATUM CHITIN SYNTHASE
SEQUENCES AND THEIR USE FOR DETECTION
OF HISTOPLASMA CAPSULATUM AND
HISTOPLASMOSIS***
Examiner : Unknown
Art Unit : 1645

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants submit herewith on Form PTO/SB/08A a listing of 147 documents known to the Applicants and/or their attorney. Applicants respectfully request consideration of the cited documents and making the same of record in the prosecution of the above-identified application. In so doing, Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application, or to establish that such references are not prior art. Pursuant to the Notice in the Official Gazette of August 5, 2003, wherein the Patent Office waived the requirements of 37 C.F.R. § 1.98(a)(2)(i), Applicants have not enclosed copies of the U.S. patent references. Copies of foreign or international documents, and non-patent literature (documents 18-147), are enclosed, numbered and labeled for identification purposes.

This statement should not be construed as a representation that more material information does not exist or that a search of the relevant art has been made. It is respectfully requested that the references listed on the attached form PTO/SB/08A be expressly considered by the Examiner, made of record in the application, and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being submitted prior to the mailing of a first substantive Office Action in this application, and, therefore, no certification or fee is required (37 C.F.R. § 1.97b(3)). However, should any fees be due, the Commissioner is

authorized to charge such fees to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

Respectfully submitted,

Date: 8-2-2005

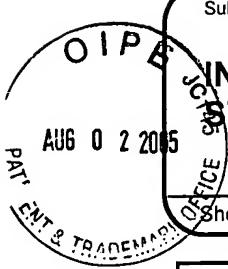


Cynthia B. Rothschild

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Art Unit	1645
Examiner Name	Unknown
Attorney Docket Number	55474-294389

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1.	US- 4,946,777	08-07-1990	Laméris et al.	
	2.	US- 5,242,800	09-07-1993	Jimenez et al.	
	3.	US- 5,324,632	06-28-1994	Weisberg et al.	
	4.	US- 5,352,579	10-04-1994	Milliman	
	5.	US- 5,360,732	11-01-1994	Berka et al.	
	6.	US- 5,360,901	11-01-1994	Berka et al.	
	7.	US- 5,580,971	12-03-1996	Mitsuhasi	
	8.	US- 5,693,501	12-02-1997	Lee et al.	
	9.	US- 5,707,802	01-13-1998	Sandhu et al.	
	10.	US- 5,763,169	06-09-1998	Sandhu et al.	
	11.	US- 5,919,617	07-06-1999	Bhattacharjee et al.	
	12.	US- 5,994,066	11-30-1999	Bergeron et al.	
	13.	US- 5,997,912	12-07-1999	Schlesinger et al.	
	14.	US- 6,001,564	12-14-1999	Bergeron et al.	
	15.	US- 6,117,641	09-12-2000	Berlin et al.	
	16.	US- 6,180,339	01-30-2001	Sandhu et al.	
	17.	US- 6,228,575	05-08-2001	Gingeras et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	18.	WO 96/21741	07-18-1996	Sandhu et al.		
	19.	WO 99/55874	11-04-1999	Zancope-Oliveria et al.		
	20.	WO 99/54508	10-28-1999	Schafer et al.		
	21.	WO 98/46738	10-22-1998	Weil et al.		
	22.	EP 804619 ABSTRACT	11-05-1997	Sandhu et al.	See: Same as WO96/21741 & US 5,707,802	
	23.	EP 0272009	06-22-1988	Hogan et al.		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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Filing Date	November 21, 2003
First Named Inventor	Clayton H. Johnson et al.
Art Unit	1645
Examiner Name	Unknown

Attorney Docket Number 55474-294389

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	24.	AMPEL, "Emerging Disease Issues and Fungal Pathogens Associated with HIV Infection," Emerg. Infect. Dis., 2:109-116, 1996	
	25.	ALTSCHUL, S., "Basic Local Alignment Search Tool," J. Mol. Biol., 215: 403-410, 1990	
	26.	AUSUBEL, F.M. et al., Short Protocols in Molecular Biology, 4 th Ed., Chapter 2, John Wiley & Sons, N.Y	
	27.	BEAMAN, B. L. et al., "Purification and Properties of a Unique Superoxide Dismutase from Nocardia Asteroides," J. Biol. Chem., 258:91-96, 1983	
	28.	BIRD, R. et al., "Single-Chain Antigen-Binding Proteins," Science, 242:423-426, 1988	
	29.	BROADDUS et al., "Bronchoalveolar Lavage and Transbronchial Biopsy for the Diagnosis of Pulmonary Infections in the Acquired Immunodeficiency Syndrom," Ann. Intern. Med., 102(6):747-752, June 1985	
	30.	BRUMMER et al., "Antifungal Mechanisms of Activated Murine Bronchoalveolar or Peritoneal Macrophages for Histoplasma Capsulatum," Clin. Exp. Immunol., 102(1):65-70, October 1995	
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	32.	CASTRO et al., "1993 Revised Classification System for HIV Infection and Expanded Surveillance Case Definition for AIDS among Adolescents and Adults," MMRW 41:1-14, 1992	
	33.	CHOMCZYNSKI, P. et al., "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction," Anal. Biochem., 162:156-159, 1987	
	34.	CHURCH, G.M. et al., "Genomic Sequencing," Proc. Natl. Acad. Sci., USA, 81:1991-1995, 1984	
	35.	COCKERILL, F.R. et al., "Rapid-Cycle Real-Time PCR: a Revolution for Clinical Microbiology," ASM News, 68:77-83, 2002	

Examiner Signature	Date Considered
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Sheet	3	of	12	Attorney Docket Number	55474-294389

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	36.	COHEN et al., "Sequence of the <i>Saccharomyces Cerevisiae</i> CTA1 Gene and Amino Acid Sequence of Catalase A Derived from It," <i>Eur. J. Biochem.</i> , 176(1):159-163, September 1988		T ²
	37.	COHEN et al., "Isolation of the Catalase A Gene of <i>Saccharomyces Cerevisiae</i> by Complementation of the <i>ctal</i> Mutation," <i>Mol. Gen. Genet.</i> , 200(1):74-79, 1985		
	38.	CORPET, F., "Multiple Sequence Alignment with Hierarchical Clustering," <i>Nucl Acids Res.</i> 16(22), 10881-10890, 1988		
	39.	CROWELE, A. J. et al., "Evidence that Vesicles Containing Living, Virulent <i>Mycobacterium Tuberculosis</i> or <i>Mycobacterium Avium</i> in Cultured Human Macrophages Are Not Acidic," <i>Infect. Immun.</i> , 59:1823-1831, 1991		
	40.	DAVIES et al., "Disseminated Histoplasmosis in Immunologically Suppressed Patients," <i>Am. J. Med.</i> , 64:94-100, 1978		
	41.	DEEPE, G. S., "The Immune Response to <i>Histoplasma Capsulatum</i> : Unearthing Its Secrets," <i>J. Lab. Clin. Med.</i> , 123:201-205, 1998		
	42.	DeGROOTE, M. A. et al., "Periplasmic Superoxide Dismutase Protects <i>Salmonella</i> from Products of Phagocyte NADPH-Oxidase and Nitric Oxide Synthase," <i>Proc. Natl. Acad. Sci. (USA)</i> , 94:13997-14001, 1997		
	43.	DERETIC, V. et al., "Mycobacterium Tuberculosis Phagosome," <i>Mol. Microbiol.</i> , 31:1603-1609, 1999		
	44.	DESAI et al., "Killing of <i>Histoplasma Capsulatum</i> by Macrophage Colony Stimulating Factor-Treated Human Monocyte-Derived Macrophages: Role for Reactive Oxygen Intermediates," <i>J. Med. Microbiol.</i> , 43(3):224-229, September 1995		
	45.	EISSENBERG, L. G. et al., "The Interplay between <i>Histoplasma Capsulatum</i> and Its Host Cells," Vol. I, Ch. 6, W. B. Saunders Company, Ltd. London, UK, 1994		
	46.	EISSENBERG, L. G. et al., "Histoplasma Capsulatum Modulates the Acidification of Phagolysosomes," <i>J. Exp. Med.</i> , 177:1605-1611, 1993		

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Substitute for form 1449B/PTO				Complete if Known	
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				Filing Date	November 21, 2003
				First Named Inventor	Clayton H. Johnson et al.
				Art Unit	1645
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Sheet	4	of	12	Attorney Docket Number	55474-294389

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	47.	EVARD et al., "The Cyanelle Genome of Cyanophora Paradoxa, Unlike the Chloroplast Genome, Codes for the Ribosomal L3 Protein," Nucleic Acid Res., 18:1115-1119, 1990		
	48.	FANG, F. C. et al., "Virulent Salmonella Typhimurium Has Two Periplasmic Cu, Zn-Superoxide Dismutases," Proc. Natl. Acad. Sci. (USA), 96:7502-7507, 1999		
	49.	FRUGOLI, J. A. et al., "Catalase Is Encoded by a Multigene Family in Arabidopsis thaliana (L.) Heynh," Plant Physiol., 112:327-336, 1996		
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	51.	GARCIA, E. et al., "Molecular Characterization of KatY (Antigen 5), a Thermoregulated Chromosomally Encoded Catalase-Peroxidase of Yersinia Pestis," J. Bacteriol., 181:3114-3122, 1999		
	52.	GEORGE et al., "Radioimmunoassay: A Sensitive Screening Test for Histoplasmosis and Blastomycosis," Am. Rev. Respir. Dis., 124(4):407-10, October 1981		
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	55.	GOODWIN, R. A., Jr. et al., "Disseminated Histoplasmosis: Clinical and Pathologic Correlations," Medicine, 59:1-33, 1980		
	56.	GUAN, L. et al., "Molecular Evolution of Maize Catalases and Their Relationship to Other Eukaryotic and Prokaryotic Catalases," J. Mol. Evol., 42:570-579, 1996		
	57.	HAMILTON, A.J. et al., "Evidence That the M Antigen of Histoplasma Capsulatum var. Capsulatum Is a Catalase Which Exhibits Cross-Reactivity with Other Dimorphic Fungi," J. Med. Vet. Mycol., 28:479-485, 1990		

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	58.	HANSEN et al., "Functional Complementation of Catalase-Defective Peroxisomes in a Methyloytrophic Yeast by Import of the Catalase A from <i>Saccharomyces Cerevisiae</i> ," <i>Eur. J. Biochem.</i> , 184(1):173-179, September 1989	
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	62.	HOWARD, "Studies on the Catalase of <i>Histoplasma Capsulatum</i> ," <i>Infect. Immun.</i> , 39(3):1161-1166, March 1983	
	63.	HOWARD, "Comparative Sensitivity of <i>Histoplasma Capsulatum</i> Conidiospores and Blastospores to Oxidative Antifungal Systems," <i>Infect. Immun.</i> , 32(1):381-387, April 1981	
	64.	IZAWA et al., "Importance of Catalase in the Adaptive Response to Hydrogen Peroxide: Analysis of Acatalasaemic <i>Saccharomyces Cerevisiae</i> ," <i>Biochem. J.</i> , 320(Pt.1):61-67, November 15, 1996	
	65.	JACOBOSON et al., "Reevaluation of Diagnostic <i>Histoplasma</i> Serologies," <i>Am. J. Med. Sci.</i> , 281(3): 143-51, June 1981	
	66.	JEAVONS, L. et al. "Identification and Purification of Specific <i>Penicillium Marneffei</i> Antigens and Their Recognition by Human Immune Seras," <i>J. Clin. Microbiol.</i> , 36:949-954, 1998	
	67.	JOHNSON, C. et al., "The Catalase Isozymes and Genes of <i>Histoplasma Capsulatum</i> ," Abstract #361, XXI Fungal Genetics Conference, at http://www.fgsc.net/fungalgenetics2001/genereg.htm , Asilomar, CA, March 2001	
	68.	JOHNSON, C. et al., "Investigation of the Catalase Enzyme of <i>Histoplasma Capsulatum</i> ," <i>Fed. Res. Prog.</i> , Abstract 0001:598, January 1997	
	69.	JOHNSON et al., "Differentially Expressed Catalase Genes in <i>Histoplasma Capsulatum</i> ," Abstract F-65, Abstracts of the General Meeting of the Amer. Soc. Microbiol., 98:263-64, 1998	
	70.	JOHNSON, C. H. et al., "Redundancy, Phylogeny and Differential Expression of <i>Histoplasma Capsulatum</i> Catalases," <i>Microbiology</i> , 148:1129-1142, 2002	

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				First Named Inventor	Clayton H. Johnson et al.
				Art Unit	1645
				Examiner Name	Unknown
Sheet	6	of	12	Attorney Docket Number	55474-294389

NON PATENT LITERATURE DOCUMENTS				
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	71.	JOHNSON, C. et al., "Catalase Isozymes and Genes of <i>Histoplasma Capsulatum</i> ," Abstract I-73, Abstracts of the Amer. Soc. for Microbiol., 100:397, 2000		
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	141.	WHEAT et al., "Histoplasmosis in the Acquired Immune Deficiency Syndrome," Am. J. Med., 78:203-210, 1985	
	142.	WILSON, T. M. et al., "Effect of inhA and katG on Isoniazid Resistance and Virulence of <i>Mycobacterium Bovis</i> ," Mol. Microbiol., 15:1009-1015, 1995	
	143.	WOODS et al., "Fast DNA Isolation from <i>Histoplasma Capsulatum</i> : Methodology for Arbitrary Primer Polymerase Chain Reaction-Based Epidemiological and Clinical Studies," J. Clin. Microbiol., 31(2):463-464, February 1993	
	144.	WOODS, J.P. et al., "InVivo Generation of Linear Plasmids with Addition of Telomeric Sequences by <i>Histoplasma Capsulatum</i> ," Molecular Microbiology, 6:3603-3610, 1992	
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	146.	ZAMOCKY et al., "Site-Directed Mutagenesis of the Lower Parts of the Major Substrate Channel of Yeast Catalase A Leads to Highly Increased peroxidatic Activity," FEBS Lett., 367(3):241-245, July 1995	
	147.	ZANCOPE-OLIVERIA et al., "Molecular Cloning, Characterization, and Expression of the M Antigen of <i>Histoplasma Capsulatum</i> ," Infect. Immun., 67(4):1947-1953, April 1999	

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